RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: <u>/</u>

Source:

Date Processed by STIC:

10/526/650

3-13-0

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 03/13/2005 PATENT APPLICATION: US/10/526,650 TIME: 12:13:01

Input Set : A:\seqlist.txt

```
4 <110> APPLICANT: Kobayashi, Masanori
      5
              Ueda, Yasuji
              Hasegawa, Mamoru
       <120> TITLE OF INVENTION: Methods of Producing a Viral Vector
     9
              Comprising a Membrane Protein That Binds To Sialic Acid As A
     10
              Component Of The Envelope Using Neuraminidase Derived From
     11
              Gram-Positive Bacteria
     14 <130> FILE REFERENCE: 50026/050001
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/526,650
C--> 16 <141> CURRENT FILING DATE: 2005-03-03
     16 <150> PRIOR APPLICATION NUMBER: PCT/JP03/11299
     17 <151> PRIOR FILING DATE: 2003-09-04
     19 <150> PRIOR APPLICATION NUMBER: JP 2002-258576
     20 <151> PRIOR FILING DATE: 2002-09-04
     22 <160> NUMBER OF SEQ ID NOS: 2
    24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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    27 <211> LENGTH: 1941
     28 <212> TYPE: DNA
    29 <213> ORGANISM: Micromonospora viridifaciens
    31 <220> FEATURE:
    32 <221> NAME/KEY: CDS
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                                             10
    40 agc ttc ctg ctc gca cca gcg ctg gcg gcc gcc acg gtc gcc ggc gcg
    41 Ser Phe Leu Leu Ala Pro Ala Leu Ala Ala Ala Thr Val Ala Gly Ala
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    44 tee eee gea eag gee ate gee ggg gea eee gte eeg eee gge gag
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    45 Ser Pro Ala Gln Ala Ile Ala Gly Ala Pro Val Pro Pro Gly Gly Glu
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    48 ccg ctc tac acg gag cag gac ctc gcc gtg aac ggc agg gag ggc ttt
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    49 Pro Leu Tyr Thr Glu Gln Asp Leu Ala Val Asn Gly Arg Glu Gly Phe
    50
             50
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    52 ccg aac tac cgc atc cca gcg ctg acc gtc acg ccc gac ggg gac ctg
                                                                           240
    53 Pro Asn Tyr Arg Ile Pro Ala Leu Thr Val Thr Pro Asp Gly Asp Leu
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    56 ctg gcc tcg tac gac ggc cgc ccg acc ggt atc gac gcg ccc ggc ccc
                                                                           288
    57 Leu Ala Ser Tyr Asp Gly Arg Pro Thr Gly Ile Asp Ala Pro Gly Pro
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                                             90
    60 aac tee ate etc caa ege ege age ace gae gge egg acg tgg gge
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```

Input Set : A:\seqlist.txt

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					Val												-
66	Giu	GIII	115	vai	Vai	DCI	nια	120	GIII	1111	1111	AIG	125	116	цуз	GLy	
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					agc												432
69	Phe	Ser	Asp	Pro	Ser	Tyr	Leu	Val	Asp	Arg	Glu	Thr	Gly	Thr	Ile	Phe	
70		130					135					140					
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76	aac	acc	gac	cca	gca	gac	ccc	aac	ata	ctc	cac	acc	aac	atc	aca	acc	528
					Ala												
78	017		1101		165	1100				170				• • • •	175		
	+ ~~	200	~~~	~~~		a+~		+~~	+ ~~		~~~	200	a+ a			~~~	F76
					ggt												576
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82				180					185					190			
					ccg												624
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88	ggc	atc	cag	ctc	cgc	tat	gga	ccc	cac	gcc	ggt	cga	ctc	atc	cag	cag	672
			_		Arg					_		_			_	_	
90	-	210			_	-	215				- 4	220					
	tac		atc	atc	aac	act		aac	acc	ttc	cad	-	ata	age	ata	tac	720
					Asn												,20
	225	1111	116	116	ASII	230	лта	Gry	Ата	FILE	235	Ата	vai	PET	vai	240	
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					gga												768
	ser	Asp	Asp	HIS	Gly	Arg	Thr	Trp	Arg		GIY	GIU	Ата	vaı		val	
98					245					250					255		
																ctg	816
101	L Gl	Met	: As	o Gli	ı Asr	Lys	Thr	Val	. Glu	ı Lev	ı Ser	: Asp	Gly	Arg	y Val	Leu	
102	2			260	)												
104	1 ctc	. aac			•				265	;				270	)		
105		. ~~	age	c cgc		tc.	gee	e aga			ı tac	: cgt	aag			gtc	864
10:			_	_	gad	_	_	_	ago	gga		_	_	gts	g gco	_	864
	Lei		ı Sei	Arg	gad	_	_	Arg	ago Ser	gga		_	Lys	gtg Val	g gco	gtc Val	864
106	Leu 5	ı Ası	275	Arg	g gad	Ser	Āla	Arg 280	ago Ser	gga Gly	туг	Arg	Lys 285	gtg Val	g gco L Ala	a Val	
106 108	Leu tco	a Asi	275 275 286	Arg	g gad g Asp	Ser cac	· Ala	Arg 280	ago Ser ggc	gga Gly	y Tyr g gtg	acc	Lys 285	y gtg Val	g gco L Ala	val gac	864 912
108 108 109	Leu 5 3 tco 9 Sei	a Asi c act	275 gad Asp	Arg	g gad g Asp	Ser cac	Ala ago Ser	Arg 280 tac Tyr	ago Ser ggc	gga Gly	y Tyr g gtg	aco Thr	Lys 285 ato	y gtg Val	g gco L Ala	a Val	
108 108 109	Let tco Ser Ser	Asr act Thi 290	275 gad Asp	Arg	g gad g Asp c ggd / Gl	Ser cac His	Ala ago Ser 295	Arg 280 tac Tyr	g ser	gga Gly Cccg	y Tyr g gtg o Val	acc Thr	Lys 285 ato Ile	y gto Val gao	g gcd L Ala c cgd	val gac g Asp	912
108 108 109 110	Let tco Ser Ser C	act Thi 290	275 275 gad Asp	Arg	g acg	Ser cac His	ago Ser 295	280 280 tac Tyr	g ser	gga Gly Cccg Pro	y Tyr g gto Val	account accoun	Lys 285 ato Ile	gto Val gad Asp	g gcd L Ala c cgd D Arg	yal gac gac gasp	
108 108 110 112	Leu Leu Ser Ser Co Leu	act Thi 290 c cco	275 275 gad Asp	Arg	g acg	Ser Cac His aac Asr	ago Ser 295 aac	280 280 tac Tyr	g ser	gga Gly Cccg Pro	y Tyr y gto y Val c ato	account and account account and account account and account and account account account and account account and account account account account account and account account account account account account account accoun	Lys 285 ato Ile	gto Val gad Asp	g gcd L Ala c cgd D Arg	gac gac g Asp gac gac	912
106 108 109 110 112 113	E Leu E Sei E Cto	act Thi 290 c cco	Ser 27! gad Asp gad o Asp	Argonia Argoni	g according to the	Cac His aac Asr 310	ago Ser 295 aac Asn	Arg 280 tac Tyr gca	g ser	gga Gly Cccg Pro	y gto y Val c ato 116	acc Thr 300 c cgg	Lys 285 ato Ile ggco	gto Val gao Asp	g gcc L Ala c cgc p Arc	gac g Asp g Asp a gac b Asp 320	912
106 108 109 110 112 113	E Leu E Sei E Cto	act Thi 290 c cco	Ser 27! gad Asp gad o Asp	Argonia Argoni	g according to the	Cac His aac Asr 310	ago Ser 295 aac Asn	Arg 280 tac Tyr gca	g ser	gga Gly Cccg Pro	y gto y Val c ato 116	acc Thr 300 c cgg	Lys 285 ato Ile ggco	gto Val gao Asp	g gcc L Ala c cgc p Arc	gac gac g Asp gac gac	912
106 108 109 110 112 113 114	5 Let 6 Ser 9 Ser 10 Ctc 12 Ctc 13 Let 13 305 15 gcc	act act Thi 290 ccc according Pro	Ser 27! gad Asp O Asp O Asp	Argo Argo Gly	g according to	C GCC	Ala ago Ser 295 aao Asn	Arg 280 tac Tyr gca Ala	ggo Gly tcg Ser	gga Gly Ccg Pro Ato Ile	y Tyr y gto y Val c ato e Ile 315	Arg	Lys 285 ato Ile gcc Ala	gto Val gac Asp tto Pho	g gcc L Ala c cgc p Arg c cct Pro	gac g Asp g Asp a gac b Asp 320	912 960
106 108 109 110 112 113 114	E Let Ser Ser Composition of the composition of	act act Thi 290 ccc according Pro	Ser 27! gad Asp O Asp O Asp	Argo Argo Gly	g according to	Ser His aac Asr 310	Ala ago Ser 295 aao Asn	Arg 280 tac Tyr gca Ala	ggo Gly tcg Ser	gga Gly Ccg Pro Ato Ile	y Tyr y gto y Val c ato 315 c cto	Arg	Lys 285 ato Ile gcc Ala	gto Val gac Asp tto Pho	g gcc L Ala c cgc p Arg c cct Pro	gac gac gac a Asp 320 a gcc a Ala	912 960
106 108 110 112 113 114 116 117	5 Let 6 Ser 9 Ser 10 Cto 11 305 12 Cto 13 Let 14 305 15 Gco 17 Ala	act act 290 ccc pro	27! 27! 2 gad Asp C gad D Asp D Asp	Argo Argo Gly	g acg g Asg c ggc / Gl _y g acg b Thi	Ser Cac His His Asr 310 G GCG Ala	Ala ago Ser 295 aao Asn O cgg	Arg 280 tac Tyr gca Ala	ggc Gly tcg Ser ser aag	gga Gly Pro gato Ile ggto Val	y Tyr y gto y Val c ato e Ile 315 c cto	accompany accomp	Lys 285 atc Ile gcc Ala ttc	gto Val gac Asp tto Pho	g gcc L Ala c cgc p Arg c cct e Pro c aac c Asr 335	gac gac gac gac gac Asp 320 gcc a Ala	912 960
106 108 110 112 113 114 116 118 120	5 Let 6 Ser 9 Ser 1 2 ctc 2 ctc 3 Let 1 305 6 gcc 7 Ala 8	act act 290 ccc a Pro	27! 27! 28: 28: 29: 29: 29: 29: 29: 29: 29: 29: 29: 29	C Arg	g gac g Asr g ggc / Gl _y g acg o Thr c tcc / Ser 325 c tcc	Ser Cac His aac Asr 310 gcg Ala	Alac ago Ser 295 aac Asn Asn Arg	Arg 280 tac Tyr gca Ala GCC Ala	ago Ser ggo Gly tcg Ser ser Lys	gga Gly Pro gato Ile Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sylato Sy	y Tyr y gto y Val c ato e Ile 315 c cto Lei	accompany accomp	Lys 285 ato Ile gco Ala tto Phe	gto Val gac Asp tto Phe tco	g gcc L Ala c cgc D Arc c cct e Pro c aac c Asr 335 c tgc	gac gac gac gac Asp 320 gcc a Ala	912 960 1008
106 108 110 112 113 114 116 117 120 121	Example 1	act act 290 ccc a Pro	27! 27! 28: 28: 29: 29: 29: 29: 29: 29: 29: 29: 29: 29	Argo Gly C Ggg C G	g acgordant for the test of th	Ser Cac His aac Asr 310 gcg Ala	Alac ago Ser 295 aac Asn Asn Arg	Arg 280 tac Tyr gca Ala gco Ala	ago Ser Gly tcg Ser Ser aag Lys	gga Gly Pro Jato Jato Jato Jato Jato Jato Jato Jat	y Tyr y gto y Val c ato e Ile 315 c cto Lei	accompany accomp	Lys 285 ato Ile gco Ala tto Phe	gto Val gac Asp tto Ser tco	g gcc L Ala c cgc D Arg c cct Pro c aac Asr 335 c tgc Cys	gac gac gac gac gac Asp 320 gcc a Ala	912 960 1008
106 108 109 110 113 114 116 117 120 121 122	Example 1	act act 290 ccc acc Pro	27! 27! 28: 28: 28: 29: 29: 29: 29: 29: 29: 29: 29: 29: 29	E Arg	g acg acg Thi Ser 325 tcg Ser	c cac His aac Asr 310 g cgc Ala	ago Ser 295 aac Asn O cgg Arg Arg	Arg 280 tac Tyr gca Ala gcc Ala	ago Ser Gly tcg Ser Lys ago Gly 345	gga Gly Pro Jato Jato Jato Jato Jato Jato Jato Jat	y Tyr g gtc y Val c atc e Ile 315 c ctc Let	according accord	Lys 285 at c Ile g gcc Ala tc ttc Phe	gts Val gac Asp tto Sei tco	g gcc L Ala c cgc D Arg c cct Pro c aac Asr 335 c tgc Cys	gac gac gac Asp 320 gcc Ala gcc Ala	912 960 1008 1056
106 108 109 110 112 113 116 116 120 121 122 124	5 Let 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	act act 290 ccc a Pro	Ser 27!  27!  28:  28:  28:  29:  29:  29:  29:  29:	E Arg	g acgordance too	c cac c cac c His d aac c Asr 310 c gcc c Ala d cgc c Arc	ago Ser 295 Caac Asn O cgg Arg Arg	Arg 280 tac Tyr gca Ala Gln	ago Ser ggo Gly tcg Ser Lys Lys Gly 345	gga Gly Pro atc Ile gtc Val 330 acc Thr	y Tyr g gtg Val c ato 315 c ctg Let	Thrace and the control of the contro	y Lys 285 ato 11e y gco Ala tto Phe ato Met	gto Val gac Asp tto Pho tco Sen 350	g gcc L Ala c cgc D Arc c cct Pro c aac c Asr 335 t tgc Cyr	gac gac gac gac Asp 320 gcc a Ala	912 960 1008

Input Set : A:\seqlist.txt

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182				580					585	- 2 -				590	2		
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															Leu		
186		<u>-</u> -	595	1				600	1	3			605				
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Input Set : A:\seqlist.txt

193	gtg Val					Gln					Tyr					Glu	1920
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209	Ser	Phe	Leu	Leu	Ala	Pro	Ala	Leu	Ala	Ala	Ala	Thr	Val	Ala	Gly	Ala	
210				20					25					30			
	Ser	Pro	Ala	Gln	Ala	Ile	Ala	_	Ala	Pro	Val	Pro		Gly	Gly	Glu	
212	_	_	35					40		·	_		45				
	Pro		Tyr	Thr	Glu	Gln	_	Leu	Ala	Val	Asn	_	Arg	Glu	GLY	Phe	
214		50				_	55	-	m1	**- 7	cm1	60		<b>a</b> 1	3	<b>.</b>	
	Pro	Asn	Tyr	Arg	шe		Ala	ьeu	Thr	vaı		Pro	Asp	GLY	Asp		
216	Leu	71-	C02	Tres	7 cm	70	7.~~	Dro	Thr	C111	75	7 an	ת דת	Dro	Clar	80 Bro	
217	шеu	АІА	ser	ıyı	85	Gry	Arg	PIO	1111	90	TTE	Asp	Ата	PIO	95	PIO	
	Asn	Ser	Tle	T.em		Ara	Ara	Ser	Thr		Glv	Glv	Ara	Thr		Glv	
220		-		100	<b>U</b>	5	9		105	1100	<b>-</b> 1	U-1	5	110		0-1	
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224		130					135					140					
225	Asn	Phe	His	Val	Tyr	Ser	Gln	Arg	Gln	Gly	Phe	Ala	Gly	Ser	Arg	Pro	
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	Gly	Thr	Asp	Pro		Asp	Pro	Asn	Val		His	Ala	Asn	Val		Thr	
228	_	_,	_	~7	165	_	1	_	_	170	_	1		cm1 .	175	<b>.</b>	
	Ser	Thr	Asp	_	GIĀ	ьeu	Thr	Trp		His	Arg	Thr	шe		Ala	Asp	
230	т1.	Thr	Dro	180	Dro	Clu	Trn	7~~	185	7~~	Dho	715	λla	190	Clar	Glu	
231	Ile	TIIL	195	Asp	PIO	GIY	пр	200	ser	Arg	Pne	Ala	205	ser	GIY	GIU	
	Gly	Tle		Len	Ara	Tvr	Glv		His	Δla	Glv	Ara		Tle	Gln	Gln	
234	Oly	210	OIII	LLC U	n 9	- y -	215	110	1110	111 G	OLY	220	шси	110	01	01	
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237	Ser	Asp	Asp	His	Gly	Arg	Thr	Trp	Arg	Ala	Gly	Glu	Ala	Val	Gly	Val	
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239	Gly	Met	Asp	Glu	Asn	Lys	Thr	Val	Glu	Leu	Ser	Asp	Gly	Arg	Val	Leu	
240				260					265					270			
	Leu	Asn		Arg	Asp	Ser	Ala	_	Ser	Gly	Tyr	Arg		Val	Ala	Val	
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244		290					295					300					

Input Set : A:\seqlist.txt

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250				Thr 340		_			345	•				350	_	
252	_	_	355	Thr	_			360	_				365	_	•	
254		370		Thr			375			_	_	380	_	_		
256	385			Gly		390					395					400
258				Ile	405					410		_			415	
260		_	•	Gln 420					425					430		-
262			435	Pro				440					445			
264		450		Gly			455					460		•		_
266	465			Thr		470					475			_	_	480
268				Ala	485					490					495	
270				Thr 500					505					510		
272	_		515	Ser				520			_	_	525			
274		530		Gly			535			_		540		_		_
276	545			Pro Ile		550					555					560
278				Val	565	_			_	570					575	
280				580 Gly					585					590		
282			595	Ala				600					605			
284		610					615					620			_	
286	625			Ser		630		GTÅ	пів	nys	635	AId	AIG	val	ALG	640
288	ned	GIU	val	Glu	645	GIU	Arg									

VERIFICATION SUMMARY

DATE: 03/13/2005

PATENT APPLICATION: US/10/526,650

TIME: 12:13:02

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\03132005\J526650.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date